

AMENDMENTS TO THE CLAIMS

1-7 (canceled)

8. (original) A method for making an elastomeric device for electrically interconnecting two or more components, comprising the steps of:

embedding a plurality of magnetic particles, coated with a low melting point metal or alloy, in an elastomer by mixing the particles in the elastomer before the elastomer sets;

applying a magnetic field to the particles so that the particles align themselves in electrically isolated columns;

heating the matrix sufficiently to fuse the low melting point coating; and

polymerizing the elastomer to form an elastomeric matrix having one or more outer surfaces and comprising one or more electrically conductive pathways through the matrix.

9. (original) The method of claim 8, wherein the uncured elastomer is coated on a carrier that contains conductive pads.

10. (original) The method of claim 8, wherein the uncured elastomer is coated on a carrier that contains one or more metal layers, the method further comprising the step of creating one or more electrically conductive pads that are electrically continuous with at least one electrically conductive pathway through the matrix.

11-12 (canceled)

13. (currently amended) A method for making an elastomeric device for electrically interconnecting two or more components, comprising the steps of:

creating an array of low melting point metallic columns on a carrier, wherein at least some of each column melts at a temperature of no more than about 140°C; and

laterally encapsulating said array in an electrically isolating elastomeric matrix.

14-15 (canceled)